SEQUENCE LISTING

4	(i '	APPLICAN	T :
		nrruiten.	

- (A) NAME: Jarl Wikberg
- (B) STREET: Trillvaegen 13
- (C) CITY: Umea
- (E) COUNTRY: Sweden
- (F) POSTAL CODE (ZIP): 905 92 Umea
- (A) NAME: Vijay Chhajlani
- (B) STREET: Stigbergsvæegen
- (C) CITY: Uppsala
- (E) COUNTRY: Sweden
- (F) POSTAL CODE (ZIP): 752 42 Uppsala
- (ii) TITLE OF INVENTION: New polypeptides
- (iii) NUMBER OF SEQUENCES: 16
- (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
- (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1270 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (cDNA)
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 169..1122
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GGAGAGGGTG TGAGGGCAGA TCTGGGGGTG CCCAGATGGA AGGAGGCAGG CATGGGGGAC 60

ACCCAAGGCC CCCTGGCAGC ACCATGAACT AAGCAGGACA CCTGGAGGGG AAGAACTGTG 120

GGGACCTGGA GGCCTCCAAC GACTCCTTCC TGCTTCCTGG ACAGGACT ATG GCT GTG 177

Met Ala Val

1

CAG GGA TCC CAG AGA AGA CTT CTG GGC TCC CTC AAC TCC ACC CCC ACA 225
Gln Gly Ser Gln Arg Arg Leu Leu Gly Ser Leu Asn Ser Thr Pro Thr

15

					CAG Gln 30			27	73
					CTC Leu			32	21
					ACC Thr			36	59
					TGC Cys			41	17
					GAG Glu			46	55
					GCT Ala 110			51	L 3
					AGC Ser			5 6	51
					CGC Arg			60)9
					CTG Leu			65	57
					GTC Val			70)5
					CTG Leu 190			. 75	33
					CTG Leu			. 80)1
					GCC Ala			84	19
					Lys			89	37

	ATC					_										945
TNI	11e 245	rea	rea	GIY	116	250	rne	Leu	СУВ	Trp	255	Pro	Pne	Pne	Leu	
	CTC															993
260	Leu	Thr	Leu	116	265	Leu	Сув	PIO	GTA	270	Pro	Thr	сув	GIY	275	
	TTC															1041
Ile	Phe	Lys	Asn	Phe 280	Asn	Leu	Phe	Leu	Ala 285	Leu	Ile	Ile	Сув	Asn 290	Ala	
	ATC															1089
Ile	Ile	Asp	Pro 295	Leu	Ile	Tyr	Ala	300	His	Ser	Gln	Glu	Leu 305	Arg	Arg	
	CTC									TGAG	GCGC	GT (GCAC	GCGC	rt	1139
Thr	Leu	110	Glu	Val	Leu	Thr	Сув 315	Ser	Trp							
TAA	GTGT	GCT (GGC)	AGAG	GG A	GGTG(GTGA!	r at:	rgtg:	rggt	CTG	GTTC	CTG 1	rgtg!	ACCCTG	1199
GGC:	AGTT(CCT :	TACC'	rccc	rg g	rccc	CGTT'	r GT	CAAA	GAGG	ATG	GACT	AAA 1	rgat(CTCTGA	1259
AAG'	rgtt(GAA (G													1270
(2)	INF	ORMA	TION	FOR	SEQ	ID I	NO:	2:								

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 317 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: polypeptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Met Ala Val Gln Gly Ser Gln Arg Arg Leu Leu Gly Ser Leu Asn Ser 1 5 10 15

Thr Pro Thr Ala Ile Pro Gln Leu Gly Leu Ala Ala Asn Gln Thr Gly
20 25 30

Ala Arg Cys Leu Glu Val Ser Ile Ser Asp Gly Leu Phe Leu Ser Leu 35 40 45

Gly Leu Val Ser Leu Val Glu Asn Ala Leu Val Val Ala Thr Ile Ala 50 55 60

Lys Asn Arg Asn Leu His Ser Pro Met Tyr Cys Phe Ile Cys Cys Leu 65 70 75 80

Ala Leu Ser Asp Leu Leu Val Ser Gly Ser Asn Val Leu Glu Thr Ala 85 90 95

Val Ile Leu Leu Glu Ala Gly Ala Leu Val Ala Arg Ala Ala Val 100 105 110

- Leu Gln Gln Leu Asp Asn Val Ile Asp Val Ile Thr Cys Ser Ser Met
 115 120 125
- Leu Ser Ser Leu Cys Phe Leu Gly Ala Ile Ala Val Asp Arg Tyr Ile 130 135 140
- Ser Ile Phe Tyr Ala Leu Arg Tyr His Ser Ile Val Thr Leu Pro Arg 145 150 155 160
- Ala Arg Arg Val Ala Ala Ile Trp Val Ala Ser Val Val Phe Ser 165 170 175
- Thr Leu Phe Ile Ala Tyr Tyr Asp His Val Ala Val Leu Leu Cys Leu 180 185 190
- Val Val Phe Phe Leu Ala Met Leu Val Leu Met Ala Val Leu Tyr Val 195 200 205
- His Met Leu Ala Arg Ala Cys Gln His Ala Gln Gly Ile Ala Arg Leu 210 215 220
- His Lys Arg Gln Arg Pro Val His Gln Gly Phe Gly Leu Lys Gly Ala 225 230 235 240
- Val Thr Leu Thr Ile Leu Leu Gly Ile Phe Phe Leu Cys Trp Gly Pro 245 250 255
- Phe Phe Leu His Leu Thr Leu Ile Val Leu Cys Pro Glu His Pro Thr 260 265 270
- Cys Gly Cys Ile Phe Lys Asn Phe Asn Leu Phe Leu Ala Leu Ile Ile 275 280 285
- Cys Asn Ala Ile Ile Asp Pro Leu Ile Tyr Ala Phe His Ser Gln Glu 290 295 300
- Leu Arg Arg Thr Leu Lys Glu Val Leu Thr Cys Ser Trp 305 310 315
- (2) INFORMATION FOR SEQ ID NO: 3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (synthetic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGGAATTCTG TGTGTNATCN CNGTGGACCG GTA

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

	•	(B (C) TY:	PE:	: 35 nucle EDNE: GY: 3	eic a	acid sing		٠						
	(ii)	MOL	ECUL	E TY	PE: 1	DNA	(ayn	thet	ic)						
	(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	D NO	: 4:					
GGGG	ATCC	GA A	GAAG	GGNA	A CC	AGCA	gagn	ATG	AA						35
(2)	INFO	RMAT	ION	FOR	SEQ	ID N	O: 5	:							
	(i)	(A (B (C) LE) TY) ST	ngth Pe: Rand	ARAC : 28 nucl EDNE GY:	5 ba eic ss:	se p acid doub	airs							
	(ii)	MOL	ECUL	E TY	PE:	DNA	(PCR	-fra	gmen	t)					
	(ix)	(⊉	•	ME/K	EY:		185		e						
	(xi)	SEÇ	QUENC	E DE	SCRI	PTIC	on: S	EQ 1	D NC	: 5:	:				
					TAC Tyr								_	_	48
					ATC Ile										96
					CAT His							_	_		144
		Pro			CTG Leu									ATG Met	192
-	Leu				TCC Ser 70	His					Ser				240
					GCC										285

(2)	INFORMATION	FOR	SEQ	ID	NO:	6:
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 95 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: polypeptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Phe Tyr Ala Leu Arg Tyr His Ser Ile Val Thr Met Arg Arg Thr Val 1 5 10 15

Val Val Leu Thr Val Ile Trp Thr Phe Cys Thr Gly Thr Gly Ile Thr 20 25 30

Met Val Ile Phe Ser His His Val Pro Thr Val Ile Thr Phe Thr Ser

Leu Phe Pro Leu Met Leu Val Phe Ile Leu Cys Leu Tyr Val His Met 50 55 60

Phe Leu Leu Ala Arg Ser His Thr Arg Lys Ile Ser Thr Leu Pro Arg 65 70 75 80

Ala Asn Met Lys Gly Ala Ile Thr Leu Thr Ile Leu Leu Gly Ile
85 90 95

- (2) INFORMATION FOR SEQ ID NO: 7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (PCR-fragment)
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 1..306
 - (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

TTC TAC GCA CTG CGC TAC CAC AGC ATC GTG ACG GCG AGG CGC TCA GGG

Phe Tyr Ala Leu Arg Tyr His Ser Ile Val Thr Ala Arg Arg Ser Gly

1 10 15

GCC ATC ATC GCC GGC ATC TGG GCT TTC TGC ACG GGC TGC GGC ATT GTC

Ala Ile Ile Ala Gly Ile Trp Ala Phe Cys Thr Gly Cys Gly Ile Val

20

25

30

TTC ATC CTG TAC TCA GAA TCC ACC TAC GTC ATC CTG TGC CTC ATC TCC

144

Phe Ile Leu Tyr Ser Glu Ser Thr Tyr Val Ile Leu Cys Leu Ile Ser

40

45

ATG	TTC	TTC	GCT	ATG	CTG	TTC	CTC	CTG	GTG	TCT	CTG	TAC	ATA	CAC	ATG	192
Met	Phe 50	Phe	Ala	Met	Leu	Phe 55	Leu	Leu	Val	Ser	Leu 60	Tyr	Ile	His	Met	
TTC	CTC	CTG	GCG	CGG	ACT	CAC	GTC	AAG	CGG	ATC	GCG	CTC	TGC	CCG	GGG	240
Phe 65	Leu	Leu	Ala	Arg	Thr 70	His	Val	Lys	Arg	11e 75	Ala	Leu	Сув	Pro	Gly 80	
CCA	GCT	CTG	CGC	GGC	AGA	GGA	CCA	GCA	TGC	AGG	GGC	GCG	GTC	ACC	CTC	288
Pro	Ala	Leu	Arg	Gly 85	Arg	Gly	Pro	Ala	Су в 90	Arg	Gly	Ala	Val	Thr 95	Leu	
ACC	ATC	CTG	CTG	GGC	ATT											306
Thr	Ile	Leu	Leu 100	Gly	Ile											

- (2) INFORMATION FOR SEQ ID NO: 8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 102 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: polypeptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Phe Tyr Ala Leu Arg Tyr His Ser Ile Val Thr Ala Arg Arg Ser Gly
1 1 15

Ala Ile Ile Ala Gly Ile Trp Ala Phe Cys Thr Gly Cys Gly Ile Val 20 25 30

Phe Ile Leu Tyr Ser Glu Ser Thr Tyr Val Ile Leu Cys Leu Ile Ser 35 40 45

Met Phe Phe Ala Met Leu Phe Leu Leu Val Ser Leu Tyr Ile His Met 50 55 60

Phe Leu Leu Ala Arg Thr His Val Lys Arg Ile Ala Leu Cys Pro Gly 65 70 75 80

Pro Ala Leu Arg Gly Arg Gly Pro Ala Cys Arg Gly Ala Val Thr Leu 85 90 95

Thr Ile Leu Leu Gly Ile 100

- (2) INFORMATION FOR SEQ ID NO: 9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 312 base pairs
 - . (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

4	(ii)	MOLECULE	TYPE:	DNA	(PCR-fragment)	١
-1	1 4 4 1	MODECOLE	7725	ω n α	I LOV-II GOMENC	1

(ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..312

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

			CAC His						48
			TGG Trp						96
			AGC Ser						144
			CTC Leu 55				-	*	192
			CAC His						240
			CAG Gln						288
			GGC Gly						312

(2) INFORMATION FOR SEQ ID NO: 10:

100

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 104 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: polypeptide'

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Phe Tyr Ala Leu Arg Tyr His Ser Ile Val Thr Val Arg Arg Ala Leu
1 5 10 15

Thr Leu Ile Val Ala Ile Trp Val Cys Cys Gly Val Cys Gly Val Val 20 25 30

Phe Ile Val Tyr Ser Glu Ser Lys Met Val Ile Val Cys Leu Ile Thr 35 40 45

110

Met	Phe	Phe	Ala	Met	Met	Leu	Leu	Met	Gly	Thr	Leu	Tyr	Val	His	Met
	50					55					60				

Phe Leu Phe Ala Arg Leu His Val Lys Arg Ile Ala Ala Leu Pro Pro 65 70 80 75

Ala Asp Gly Val Ala Pro Gln Gln His Ser Cys Met Lys Gly Ala Val 85 90 95

Thr Leu Thr Ile Leu Leu Gly Ile 100

(2) INFORMATION FOR SEQ ID NO: 11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 372 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (PCR-fragment)
- (ix) FEATURE:

100

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..372

(xi)	SEÇ	UENC	E DE	ESCRI	PTIC	on: s	EQ I	D NO): 11	. :				
												GCA Ala 15		48
												GTT Val		96
												GCC Ala		144
												CTG Leu	GCT Ala	192
												CGG		240
												CGC Arg 95		288

GTC CAC CAG GGC TTT GGC CTT AAA GGC GCT GTC ACC CTC ACC ATC CTG

Val His Gln Gly Phe Gly Leu Lys Gly Ala Val Thr Leu Thr Ile Leu

}====

104

CTG GGC ATT TTC ACC GTC TCG TGG CGC CCC TTC TTC Leu Gly Ile Phe Thr Val Ser Trp Arg Pro Phe Phe 115

372

- (2) INFORMATION FOR SEQ ID NO: 12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 124 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Leu Cys Val Ile Ala Leu Asp Arg Tyr Ile Ser Ile Phe Tyr Ala Leu
1 10 15

Arg Tyr His Ser Ile Val Thr Leu Pro Arg Ala Pro Glu Ala Val Ala 20 25 30

Ala Ile Trp Val Ala Ser Val Val Phe Ser Thr Leu Phe Ile Ala Tyr
35 40 45

Tyr Asp His Val Ala Val Leu Leu Cys Leu Val Val Phe Phe Leu Ala 50 55 60

Met Leu Val Leu Met Ala Val Leu Tyr Val His Met Leu Ala Arg Ala 65 70 75 80

Cys Gln His Ala Gln Gly Ile Ala Arg Leu His Lys Arg Gln Arg Pro 85 90 95

Val His Gln Gly Phe Gly Leu Lys Gly Ala Val Thr Leu Thr Ile Leu 100 105 110

Leu Gly Ile Phe Thr Val Ser Trp Arg Pro Phe Phe 115 120

- (2) INFORMATION FOR SEQ ID NO: 13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GGGAATTCTA CGCACTGCGC TACCACAGCA TCGTG

(2) INFORMATION	FOR	SEQ	ID	NO:	14:
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(i)	SEQUENCE	CHARACTERISTICS:
•		

- (A) LENGTH: 34 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (synthetic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGGGATCCAA TGCCCAGCAG GATGGTGAGG GTGA

34

(2) INFORMATION FOR SEQ ID NO: 15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1650 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (CDNA)
- (ix) FEATURE:

15

- (A) NAME/KEY: CDS
- (B) LOCATION: 616..1590
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

CTTGAGGAGA ATGTCGTGCA GTAGCCTTAG GAATGTGAAC ATTGGGAGAC TGGCTGGGAT	60
TTTGTAGGTT ATGAGAAGGG GACACTTATG ATATGTGAAC TTGAGCCCAG GAGAGAAGCC	120
ATAAAAAGTG AAACTGTCCT GGGCACTTGG AGGTGAGTGT CTCTCTAGTA AGATGCATGT	180
GAAAGGCCTG GGAGCTGAAA GCAAGGAGAG CAGAAGAGGC TGGTGAAGAT TCTAATCTGC	240
GTGTCCAGGG GCACTCTTCC AGGTCTCAGG AACGCAGGTC AGAATGTGCA AGCCAGCTGC	300
CGGGCACGTG GCTCACCCCT GTAGTACCAG CACTTTGGGA GGCTGAGAGA GAAGATCGCT	360
TGTGGCCAGG AGTTTGAGAC CAGACTGGGG CTTCATAGGG AGACCCTGTC TCTTAAAAAA	420
AAAAAAAAA AAGGACTGAG TGAGCCGAGC CCAGTCCTCT CATGCACTGT GTCATTCATC	
CCCTTTCTTA GGCTGTGTTG GTTCTAGGCT AGCTGCTGTC TTTCTTTGGT AGGCTGCTAA	480
CCTCTTTGGA TTGTGAATTT AAAACATGTT TTACAGTAAA TTTGCTGCCA AGACAAGAGG	540
	600
TGTATTTCTC CAGCA ATG AAT TCC "CA TTT CAC CTG CAT TTC TTG GAT CTC Met Asn Ser ser Phe His Leu His Phe Leu Asp Leu 1 5 10	651
AAC CTG AAT GCC ACA GAG GGC AAC CTT TCA GGA CCC AAT GTC AAA AAC Asn Leu Asn Ala Thr Glu Gly Asn Leu Ser Gly Pro Asn Val Lys Asn	699

25

AAG	TCT	TCA	CCA	TGT	GAA	GAC	ATG	GGC	ATT	GCT	GTG	GAG	GTG	TTT	CTC	747
Lys		Ser	Pro	Сув	Glu	_	Met	Gly	Ile	Ala		Glu	Val	Phe	Leu	
	30					35					40					
እ Cጥ	רידים	CCT	GTC	አ ጥሮ	AGC	CTC	ጥጥር	GAG	AAC	አ ጥር	ጥጥር	GTC	ልጥል	GGG	GCC	795
					Ser											793
45		,			50					55				1	60	
					AAC											843
Ile	Val	Lys	Asn		Asn	Leu	His	Ser		Met	Tyr	Phe	Phe		Cys	
				65					70					75		
AGC	CTG	GCA	GTG	GCG	GAC	ATG	CTG	GTG	AGC	ATG	TCC	AGT	GCC	TGG	GAG	891
					Asp											032
			80		-			85					90	•		
					CTA											939
Thr	He	Thr 95	Ile	Tyr	Leu	Leu	100	Asn	Lys	His	Leu		Ile	Ala	Asp	
		73					100					105				
GCC	TTT	GTG	CGC	CAC	ATT	GAC	AAT	GTG	TTT	GAC	TCC	ATG	ATC	TGC	ATT	987
Ala	Phe	Val	Arg	His	Ile	Asp	Asn	Val	Phe	Asp	Ser	Met	Ile	Cys	Ile	
	110					115					120					
					ATG Met											1035
125	* # *	Val	NIG	Ser	130	CyB	Ser	Leu	Leu	135	116	WIG	AGI	Авр	140	
															740	
TAC	GTC	ACC	ATC	TTC	TAC	GCC	CTG	CGC	TAC	CAC	CAC	ATC	ATG	ACG	GCG	1083
Tyr	Val	Thr	Ile		Tyr	Ala	Leu	Arg		His	His	Ile	Met	Thr	Ala	
				145					150					155		
AGG	CGC	TCA	ccc	GCC	ATC	ATC	GCC	GGC	ATC	TGG	GCT	התהכי	ፕሮሮ	ACG	GGC	1131
					Ile											1101
	,		160					165					170		1	
					ATC											1179
Cys	Gly			Phe	Ile	Leu	Tyr 180	•	Glu	Ser	Thr	-	Val	Ile	Leu	
		175					190					185				
TGC	CTC	ATC	TCC	ATG	TTC	TTC	GCT	ATG	CTG	TTC	CTC	CTG	GTG	TCT	CTG	1227
					Phe											
	190					195					200					
														·	•	
					CTC	P-										1275
205		UTR	wer	FIIG	Leu 210		MIG	Arg	The	215		тÅв	Arg	TTE	220	
															٠ شه ٧	
CTC	TGC	CCG	GGG	CCA	GCT	CTG	CGC	GGC	AGA	GGA	CCA	GCA	TGG	CAG	GGC	1323
Leu	Сув	Pro	Gly			Leu	Arg	Gly	Arg	Gly	Pro	Ala	Trp	Gln	Gly	
				225					230					235		
CCC	ርጥር	300	- Cmc	BOO	3 መ <i>ር</i>	COLO	Omo	000		W.C.	300	050	maa	maa	000	1 2 7 1
_															GCC Ala	1371
, u			240				. .	245		. 416		4 64 7	250	_	1140	

						ACT Thr										1419	}
						TCT Ser 275										1467	,
						GAC Asp										1515	;
						AAG Lys										1563	}
						AGA Arg			TAAC	GAC	AAA G	TGC	CCTC	T		1610)
CTG	rgger	CT G	TTCI	CCTI	T GI	TTGO	CTCAC	CT	ATGAC	CAAA				•		1650)
(2)		(i) S	SEQUE	ence Engti	CHAI	ID N	ERIST	rics			,						
		•	•			line											
	(ii) MOI	LECUI	LE T	PE:	prot	cein										
Mark.						IPTIC								_			
met 1	Asn	ser	ser	Pne 5	HIB	Leu	HTS	Pne	Leu 10	Asp	Leu	Asn	Leu	Asn 15	Ala		
Thr	Glu	Gly	Asn 20	Leu	Ser	Gly	Pro	Asn 25	Val	Lys	Asn	Lys	Ser 30	Ser	Pro		
Сув	Glu	Авр 35	Met	Gly	Ile	Ala	Val 40		Val	Phe	Leu	Thr 45	Leu	Gly	Val		
Ile	Ser 50		Leu	Glu	Asn	Ile 55		Val	Ile	Gly	Ala 60	Ile	Val	Lys	Asn		
Lys 65		Leu	His	Ser	Pro 70	Met	Tyr	Phe	Phe	Val 75	Сув	Ser	Leu	Ala	Val 80		
Ala	Asp	Met	Leu	Val 85		Met	Ser	Ser	Ala 90	-	Glu	Thr	Ile	Thr 95	Ile		
Tyr	Leu	Leu	Asn 100		Lys	His	Leu	Val 105		Ala	Asp	Ala	Phe 110	Val	Arg		
His	Ile	Asp 115		Val	Phe	Asp	Ser 120		Ile	Сув	Ile	Ser 125		Val	Ala		

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108

Ser Met Cys Ser Leu Leu Ala Ile Ala Val Asp Arg Tyr Val Thr Ile 130 135 140

Phe Tyr Ala Leu Arg Tyr His His Ile Met Thr Ala Arg Arg Ser Gly 145 150 155 160

Ala Ile Ile Ala Gly Ile Trp Ala Phe Cys Thr Gly Cys Gly Ile Val 165 170 175

Phe Ile Leu Tyr Ser Glu Ser Thr Tyr Val Ile Leu Cys Leu Ile Ser 180 185 190

Met Phe Phe Ala Met Leu Phe Leu Leu Val Ser Leu Tyr Ile His Met 195 200 205

Phe Leu Leu Ala Arg Thr His Val Lys Arg Ila Ala Leu Cys Pro Gly 210 215 220

Pro Ala Leu Arg Gly Arg Gly Pro Ala Trp Gln Gly Ala Val Thr Val 225 230 235 240

Thr Met Leu Gly Val Phe Thr Val Cys Trp Ala Pro Phe Phe Leu 245 250 255

His Leu Thr Leu Met Leu Ser Cys Pro Gln Asn Leu Tyr Cys Ser Arg 260 265 270

Phe Met Ser His Phe Asn Met Tyr Leu Ile Leu Ile Met Cys Asn Ser 275 280 285

Val Met Asp Pro Leu Ile Tyr Ala Phe Arg Ser Gln Glu Met Arg Lys 290 295 300

Thr Phe Lys Glu Ile Ile Cys Cys Arg Gly Phe Arg Ile Ala Cys Ser 305 310 315 320

Phe Pro Arg Arg Asp 325

(2) INFORMATION FOR SEQ ID NO: 17:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (synthetic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO 17:

GGAAGCTTTC TTTGGTAGGC TG

(2)	INFORMATION	FOR	SEQ	ID	NO:	18
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (synthetic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGTCTAGAGC CACAGAGAGG AG

22

(2) INFORMATION FOR SEQ ID NO: 19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (synthetic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

CTGCATTTCT TGGATCT

17

(2) INFORMATION FOR SEQ ID NO: 20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (synthetic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

AAGCTGCACA TGGATGC